

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A dual motion docking apparatus for docking an electronics console to a component board in a chassis[[,]] ~~wherein the electronics console must be mated with the component board at an angle orthogonal to a direction of installation of the electronics console, the dual motion docking apparatus comprising:~~

a first docking mechanism for slidably inserting the electronics console into [[a]] the chassis in a first direction, such that connectors on the electronics console align with connectors on the component board[[,]] ~~wherein the first docking mechanism comprises[[,]]~~

~~a docking base coupled to the component board having a longitudinal female portion, and a longitudinal male portion located on an underside of the electronics console, wherein when the electronics console is inserted into an opening in a chassis, the male portion engages the female portion of the docking base to guide the electronics console along the docking base as the electronics console is slid into the chassis; and~~

a second docking mechanism for ~~laterally~~ moving the electronics console towards the component board in a second direction, such that the electronics console connectors engage the component board connectors, thereby enabling the blind docking between the electronics console and the component board, wherein ~~the second docking mechanism comprises[[,]]~~

~~a handle extending from a front of the electronics console, and~~

~~a cam mechanism having a portion that is held immobile by the docking base, wherein after the electronics console is slid into the chassis, the handle is pushed rearward by hand to actuate the cam mechanism, which then pulls the electronics console towards the component board~~ the second direction is orthogonal to the first direction.

2. (Cancelled)

3. (Currently Amended) The apparatus of claim [[1]] 22, wherein the electronics console includes a base plate that includes at least one key slot, and the docking base includes at least one key, wherein after the electronics console is slid into the chassis, respective keys are aligned with respective key slots.

4. (Currently Amended) The apparatus of claim 3, wherein after operation of the second docking mechanism, the keys slots on the base plate mate with the keys of the docking base plate to ensure that the electronics console connectors correctly align with the component board connectors when the electronics console is in a final docked position.

5. (Cancelled)

6. (Currently Amended) The apparatus of claim [[1]] 23, wherein the cam mechanism comprises:

a base plate supporting the electronics console;

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a sliding plate mounted under the base plate, wherein the handle is slidably mounted beneath the sliding plate;

multiple cam tracks on the sliding plate positioned perpendicular to the longitudinal axis of the electronics console;

multiple cam tracks on the handle positioned parallel to the longitudinal axis of the electronics console; and

multiple cams mounted to the base plate, wherein the respective cam tracks of the sliding plate and the handle are vertically aligned, such that one cam extends through one pair of aligned cam tracks.

7. (Currently Amended) The apparatus of claim 6, wherein the sliding plate includes a longitudinal male member that engages with a longitudinal ~~male~~ female member on a docking base, which fixes the sliding plate in place so that the base plate of the electronics console is free to move horizontally with respect to sliding plate.

8. (Original) The apparatus of claim 1, wherein the electronics console further includes retractable lateral support members in a side opposite the component board, wherein when the electronics console is in an undocked position, the lateral support members are retracted within the side of the electronics console, and when the electronics console is in a final docked position, the lateral support members extend from the side to restrain the electronics console both vertical and horizontally.

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9. (Original) The apparatus of claim 1, wherein the component board is vertically mounted in the chassis in a front-to-rear orientation, and wherein the electronics console is installed into the chassis along an axis parallel to the component board.

10. (Original) The apparatus of claim 1, wherein the electronics console comprises a central electronics console.

11. (Currently Amended) A method for docking an electronics console to a component board in a chassis[[,]] ~~wherein the electronics console and the component board lie in the same plane of the chassis, and the electronics console must be mated with the component board at an angle orthogonal to a direction of installation of the electronics console,~~ the method comprising:

(a) providing a first docking mechanism for slidably inserting the electronics console into [[a]] the chassis in a first direction, such that connectors on the electronics console align with connectors on the component board[[,]] ~~wherein the electronics console is slidably inserted into the chassis by[[,]]~~

~~coupling a docking base to the electronics console that has a longitudinal female portion[[,]] and~~

~~providing a longitudinal male portion under the electronics console, wherein when the electronics console is inserted into an opening in a chassis, the male portion engages the female portion of the docking base to guide the electronics console along the docking base as the electronics console is slid into the chassis; and~~

(b) providing a ~~eam~~ second docking mechanism that laterally moves for moving the electronics console towards the component board in response to a handle push a second

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direction, such that the electronics console connectors engage the component board connectors, thereby enabling the blind docking between the electronics console and the component board, wherein the cam mechanism is provided by[[,]]

~~providing the handle extending from a front of the electronics console, and~~
~~providing a portion of the cam mechanism that is held immobile by the docking~~
~~base, wherein after the electronics console is slid into the chassis, the handle is pushed~~
~~rearward by hand to actuate the cam mechanism, which then pulls the electronics console~~
~~towards the component board~~ the second direction is orthogonal to the first direction.

12. (Cancelled)

13. (Currently Amended) The method of claim 11 ~~24~~, further ~~including the step of~~
comprising:

providing the electronics console ~~includes with~~ a base plate that includes at least one key slot, and wherein the docking base includes at least one key, ~~wherein~~ such that after the electronics console is slid into the chassis, respective keys are aligned with respective key slots.

14. (Currently Amended) The method of claim 13, wherein after operation of the ~~cam~~ second docking mechanism, the keys slots on the base plate mate with the keys of the docking base plate to ensure that the electronics console connectors correctly align with the component board connectors when the electronics console is in a final docked position.

15. (Cancelled)

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16. (Currently Amended) The method of claim 11 ~~25~~, further ~~including the step of~~ comprising:

providing the cam mechanism with

a base plate supporting the electronics console,

a sliding plate mounted under the base plate, wherein the handle is slidably mounted beneath the sliding plate,

multiple cam tracks on the sliding plate positioned perpendicular to the longitudinal axis of the electronics console,

multiple cam tracks on the handle positioned parallel to the longitudinal axis of the electronics console, and

multiple cams mounted to the base plate, wherein the respective cam tracks of the sliding plate and the handle are vertically aligned, such that one cam extends through one pair of aligned cam tracks.

17. (Currently Amended) The method of claim 16, further ~~including the step of~~ comprising:

providing the sliding plate with a longitudinal male member that engages with a longitudinal ~~male~~ female member on a docking base, which fixes the sliding plate in place so that the base plate of the electronics console is free to move horizontally with respect to sliding plate.

18. (Currently Amended) The method of claim 11, further ~~includes the step of~~ comprising:

(e) providing the electronics console with [[a]] retractable lateral support members in a side opposite the component board, wherein when the electronics console is in an undocked position, the lateral support members are retracted within the side of the electronics console, and

when the electronics console is in a final docked position, the lateral support members extend from the side and restrain the ~~CEG~~ electronics console both vertical and horizontally.

19. (Currently Amended) The method of claim 11, further ~~including the step of~~ comprising:
vertically mounting the component board in the chassis in a front-to-rear orientation; and
installing the electronics console in the chassis along an axis parallel to the component board.

20. (Original) The method of claim 11, wherein the electronics console comprises a central electronics console.

21. (Currently Amended) A method for docking an electronics console to a midplane in a chassis[[,]] ~~wherein the electronics console and the midplane lie in the same plane of the chassis, and the electronics console must be mated with the midplane at an angle orthogonal to a direction of installation of the electronics console,~~ the method comprising:

(a) attaching a docking base to the chassis and the midplane, the docking base having a longitudinal ~~male~~ female portion;

(b) providing the electronics console with,

(i) a base plate ~~having a longitudinal female portion,~~

(ii) a sliding plate mounted beneath the base plate, the sliding plate having a ~~plurality of cam tracks~~ longitudinal male portion,

(iii) an extendable handle mounted beneath the sliding plate, the extendable handle and the sliding plate having a plurality of cam tracks, and

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- (iv) cams mounted to the base plate through the cam tracks of both the sliding plate and the extendable handle;
- (e) in response to an operator slidably inserting the electronics console into the chassis in a first direction, causing the male portion of the sliding plate to engage the female portion of the docking base to guide the electronics console along the docking base as the electronics console is slid into the chassis, wherein the sliding plate is fixed in place; and
- (4) in response to an operator pushing-in the ~~extended~~ extendable handle, causing the cams and cam tracks to move the base plate and the electronics console ~~laterally with respect to the sliding plate~~ in a second direction to engage connectors on the electronics console with connectors on the midplane, wherein the second direction is orthogonal to the first direction.

22. (New) The apparatus of claim 1, wherein the first docking mechanism comprises:
- a docking base having a longitudinal female portion; and
- a longitudinal male portion located on an underside of the electronics console, wherein when the electronics console is inserted into an opening in the chassis, the male portion engages the female portion of the docking base to guide the electronics console along the docking base as the electronics console is slid into the chassis.
23. (New) The apparatus of claim 1, wherein the second docking mechanism comprises:
- a handle extending from a front of the electronics console; and
- a cam mechanism, the cam mechanism having a portion that is held immobile by a docking base, wherein after the electronics console is slid into the chassis, the handle is pushed

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rearward by hand to actuate the cam mechanism, which then pulls the electronics console towards the component board.

24. (New) The method of claim 11, wherein providing a first docking mechanism comprises:
providing a docking base having a longitudinal female portion; and
providing a longitudinal male portion located on an underside of the electronics console, wherein when the electronics console is inserted into an opening in the chassis, the male portion engages the female portion of the docking base to guide the electronics console along the docking base as the electronics console is slid into the chassis.

25. (New) The method of claim 11, wherein providing a second docking mechanism comprises:
providing a handle extending from a front of the electronics console; and
providing a cam mechanism, the cam mechanism having a portion that is held immobile by a docking base, wherein after the electronics console is slid into the chassis, the handle is pushed rearward by hand to actuate the cam mechanism, which then pulls the electronics console towards the component board.